CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

23rd March 2015

Dear Sir,

Sub: Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.
Name of Agency	Sri. Y. R. Sridhar.
Grade of Concrete	M-30
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	23/02/2015	23/03/2015	28	8.20	690	**30.67**	31.11
2					8.19	700	**31.11**	
3					8.21	710	**31.56**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.
Name of Agency	Sri. Y. R. Sridhar
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (RCC precast slab)	18/02/2015	18/03/2015	28	8.16	350	**15.56**	**15.85**
2					8.18	355	**15.78**	
3					8.20	365	**16.22**	

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Lab Incharge
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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

05th February 2015

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

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Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side Kondappa layout in ward no. 02, of Yelahanka sub division.
Name of the Agency	Sri. Y. R. Sridhar.
Date of Testing	05/02/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	53	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	482	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref IS 383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division
Name of the Agency	Sri. Y. R. Sridhar.
Date of Testing	05/02/2015
Specific Gravity	2.67
Water Absorption in %	0.28

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**98.4**	95-100	
20	**54.7**	30-70	
10	**23.6**	10-35	
4.75	**4.2**	0-5	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.
Name of the Agency	Sri. Y. R. Sridhar.
Date of Testing	05/02/2015
Specific Gravity	2.62
Water Absorption in %	0.32

IS Sieve Designation (mm)	**Sieve Analysis** (% Passing IS Sieve)	**Grading Requirement** as per IS:383-1970 (Reaffirmed 2011)	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**98.4**	95-100	
10	**45.3**	25-55	
4.75	**7.9**	0-10	

Note:

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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

11th February 2015

Dear Sir,

Sub: Testing of Reinforcement steel bars and solid block.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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CIVIL TECH LABS

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.
Name of the Agency	Sri. Y. R. Sridhar.
Date of Test	11/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.890	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.1	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	421	415	Satisfactory
6	U T S (N/Sq.mm)	526	485	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.
Name of the Agency	Sri. Y. R. Sridhar.
Date of Testing	11/02/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.1	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	418	415	Satisfactory
6	U T S (N/Sq.mm)	522	485	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

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TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Improvements to drains and providing flagging course to 13th to 16th cross roads of Eastern side kondappa layout in ward no. 02, of Yelahanka sub division.
Sample received on	Sri. Y. R. Sridhar.
Date of Testing	11/02/2015
Technical Referance	IS: 2185(Part-I) 2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm²)	Minimum Compressive Strength as per IS: 2185(Part-I) 2005	
			Individual	Avg. of 8 samples
1	40x20x20	4.2	Minimum Compressive Strength of Individual Units	Minimum Average Compressive Strength of Units
2		4.5		
3		4.1	For Grade C (5.0)- 4.0 N/mm² For Grade C (4.0)- 3.2 N/mm²	For Grade C (5.0)- 5.0 N/mm² For Grade C (4.0)- 4.0 N/mm²
4		4.3		
5		4.5		
6		4.3		
7		4.4		
8		4.5		
Average Compressive strength (N/mm²)		4.4		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I) 2005
1	40x20x20	7.26	7.29	When three samples are tested the average water absorption shall not be more than 10% by mass
2		7.32		
3		7.28		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS: 2185(Part-I) 2005
1	40x20x20	1862.2	1863.3	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1863.4		
3		1864.4		

Remarks	Satisfies the Requirements.

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